

Client ref.: 200316
Our ref.: 0822-577605 final / inv / Kevin

What is claimed is:

1 1. A plastic substrate for organic electroluminescent
2 devices, comprising:
3 a plastic substrate; and
4 a deposition film with a predetermined thickness formed
5 on the plastic substrate by plasma chemical vapor
6 deposition, the film having a formula of
7 $\text{SiO}_e\text{C}_a\text{H}_b\text{X}_c\text{Y}_d\text{Z}_f$ ($e \leq 2$, $2-e=a+b+c+d+f$), wherein X, Y
8 and Z are selected from the group consisting of
9 Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Pd,
10 Ag, Pt, Au and the elements in periodic table
11 IA, IIA, IIIA, IVA, VA, VIA and VIIA
12 excepting H.

1 2. The plastic substrate for organic
2 electroluminescent devices as claimed in claim 1, wherein
3 the predetermined thickness is 0.1 to 4.5 μm .

1 3. A fabrication method for a plastic substrate for
2 organic electroluminescent devices, comprising the steps of:
3 providing a plastic substrate; and
4 performing plasma chemical vapor deposition to form a
5 deposition film of predetermined thickness on the
6 plastic substrate, the film having a formula of
7 $\text{SiO}_e\text{C}_a\text{H}_b\text{X}_c\text{Y}_d\text{Z}_f$ ($e \leq 2$, $2-e=a+b+c+d+f$), wherein X, Y
8 and Z are selected from the group consisting of
9 Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Pd,
10 Ag, Pt, Au and the elements in periodic table

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11 IA, IIA, IIIA, IVA, VA, VIA and VIIA
12 excepting H.

1 4. The plastic substrate for organic
2 electroluminescent devices as claimed in claim 3, wherein
3 the predetermined thickness is 0.1 to 4.5µm.

1 5. An organic electroluminescent device, comprising:
2 a cathode;
3 an anode;
4 at least an organic layer between the anode and the
5 cathode, such that when a voltage is applied to
6 the cathode and the anode, the organic layer
7 electroluminesces;
8 a first plastic substrate beneath the cathode; and
9 a second plastic substrate as claimed in claim 1 above
10 the anode.